

## ASSIGNMENT 8

Textbook Assignment: "Weapons Systems," chapter 7, pages 7-1 through 7-21.

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| <p>8-1. The computer-controlled weapons systems provide a higher degree of safety by significantly reducing the degree of which of the following factors?</p> <ol style="list-style-type: none"><li>1. Mechanical failure</li><li>2. Electronic failure</li><li>3. Electronic error</li><li>4. Human error</li></ol> | <p>8-6. With the F-14 weapon station 1A loaded, ready, and selected, what indication will the weapon status indicator labeled 1A show on the ACM panel?</p> <ol style="list-style-type: none"><li>1. Black</li><li>2. White</li><li>3. Gray</li><li>4. Checkerboard</li></ol>  |
| <p>8-2. The ACM panel in the F-14 is located in the</p> <ol style="list-style-type: none"><li>1. aft cockpit, center console</li><li>2. aft cockpit, left console</li><li>3. forward cockpit, center console</li><li>4. forward cockpit, left console</li></ol>  | <p>8-7. What F-14 control contains the DLC/CHAFF dispense push button?</p> <ol style="list-style-type: none"><li>1. Control stick</li><li>2. Displays control</li><li>3. ACM JETT control</li><li>4. HOT TRIGGER control</li></ol>   |
| <p>8-3. Which of the following components is NOT located on the ACM panel in the F-14?</p> <ol style="list-style-type: none"><li>1. Armament safety override switch</li><li>2. Weapon status indicator</li><li>3. Master arm switch</li><li>4. ACM JETT switch</li></ol>   | <p>8-8. Master arm power on the F-14 is removed by what component when the aircraft is on the ground?</p> <ol style="list-style-type: none"><li>1. Port main landing gear weight-on-wheels switch</li><li>2. Starboard main landing gear weight-on-wheels switch</li><li>3. Nose landing gear weight-on-wheels switch</li><li>4. Landing gear handle switch assembly</li></ol> |
| <p>8-4. Before applying external power, the technician must ensure that all armament switches are in their proper position?</p> <ol style="list-style-type: none"><li>1. True</li><li>2. False</li></ol>   | <p>8-9. The armament safety override switch on the F-14 is located in the</p> <ol style="list-style-type: none"><li>1. forward cockpit, center console</li><li>2. nosewheel well</li><li>3. control stick</li><li>4. landing gear handle</li></ol>   |
| <p>8-5. The stores on the station selected on the armament panel in the F-14 are jettisoned when what switch is pressed?</p> <ol style="list-style-type: none"><li>1. Weapon status</li><li>2. HOT TRIGGER</li><li>3. Master arm</li><li>4. ACM JETT</li></ol>   | <p>8-10. The purpose of the armament safety override switch on the F-14 is to</p> <ol style="list-style-type: none"><li>1. arm weapons</li><li>2. bypass missile control system</li><li>3. bypass landing gear safety circuit for ground maintenance</li><li>4. remove master arm power for ground maintenance</li></ol>   |

- 8-11. On the F-14, what are the modes of operation in the M61A1 20-mm gunfire control system?
1. A/G and A/A only
  2. A/G and ACM encounter only
  3. A/A and ACM encounter only
  4. A/G, A/A, and ACM encounter
- 8-12. The AN/AWW-4 fuze function control system on the F-14 provides (a) what type of voltage for charging and arming and (b) what type of armament electrical fuzes?
1. (a) High ac (b) bomb
  2. (a) High dc (b) bomb
  3. (a) High ac (b) missile
  4. (a) High dc (b) missile
- 8-13. The decoy dispensing system ejects what types of decoy rounds on the F-14?
1. Flares only
  2. Chaff packages only
  3. Flares and chaff packages
- 8-14. What jettison modes are pilot controlled on the F-14?
1. Emergency and ACM encounter
  2. Emergency and selective
  3. ACM encounter and auxiliary
  4. Selective and auxiliary
- 8-15. The landing gear handle may be in the DOWN position for what jettison mode on the F-14?
1. Emergency
  2. ACM encounter
  3. Selective
  4. Auxiliary
- 8-16. The F/A-18 armament system contains what data link system?
1. AN/AWW-4
  2. AN/AWW-7
  3. AIM-7
  4. AIM-9
- 8-17. On the F/A-18 ground power control panel, the application of external power to the instrument and avionic systems is controlled by what total number of toggle switches?
1. One
  2. Two
  3. Three
  4. Four
- 8-18. On the F/A-18 ground power control panel, the RESET position of the external power switch accomplishes which, if any, of the following functions?
1. Provides electrical power to the aircraft
  2. Removes electrical power from the aircraft
  3. Provides a circuit breaker for an overload
  4. None of the above
- IN ANSWERING QUESTIONS 8-19 AND 8-20, REFER TO FIGURE 7-9 IN THE TEXTBOOK.
- 8-19. Normal weapon release, launch, and fire signals are disabled with the LDG GEAR control handle in the DN position.
1. True
  2. False
- 8-20. With the LDG GEAR control handle in the UP position, 28-volt dc power is applied to the master arm circuit breaker from what relay?
1. Main landing gear weight-on-wheels
  2. Main landing gear weight-off-wheels
  3. Nose landing gear weight-on-wheels
  4. Nose landing gear weight-off-wheels

8-21. With the landing gear handle in the DN position to enable F/A-18 weapons systems for ground operational maintenance, what switch is used for override?

1. Landing gear override
2. Armament safety override
3. Master arm override
4. Weight-on-wheels override

8-22. With the F/A-18 master arm switch in the SAFE position, what is the only armament release mode that can be initiated?

1. Bomb jettison
2. Missile jettison
3. Emergency jettison
4. Selectable jettison

8-23. The F/A-18 aircraft controller grip assembly contains which of the following switches?

1. The bomb release only
2. The A/A only
3. The trigger only
4. The bomb release, A/A, and trigger

IN ANSWERING QUESTIONS 8-24 THROUGH 8-28, REFER TO FIGURE 7-13 IN THE TEXTBOOK.

8-24. When will the DDIs display a program list?

1. When In the A/A mode
2. When in the A/G mode
3. When the wing-form is displayed
4. When the wing-form is not displayed

8-25. The wing-form display on the DDIs is displayed during what mode(s) of operation?

1. A/G only
2. A/A only
3. A/G and A/A
4. SMP

8-26. In the A/A and A/G computer modes, what weapon stations are always displayed on the DDIs?

1. 1 and 9
2. 2 and 8
3. 3 and 7
4. 4, 5, and 6

8-27. With the MASTER switch In the SAFE position and in the A/G mode, a weapon selection will change the weapon loaded display by adding which of the following indications on the DDIs?

1. A box around the acronym only
2. An X through the acronym only
3. A box around and an X through the acronym
4. A RDY indication below the acronym

8-28. When a weapon is selected, the first priority station that has this particular weapon loaded is indicated by what indication on the DDIs?

1. A box around the acronym only
2. An X through the acronym only
3. A box around and an X through the acronym
4. A RDY indication below the acronym

8-29. What component(s) control(s) the SMP?

1. Digital display indicators
2. Digital computers
3. Master arm switch
4. Armament safety override switch

8-30. A weapon-type code is NOT required on what weapons loaded on F/A-18 fuselage stations 4 and 6?

1. AIM-7 missiles
2. AIM-9 missiles
3. MK-82 bombs
4. MK-92 bombs

- 8-31. On the F/A-18 MC/HYD ISOL panel, when the MC switch is in the NORM position, power is applied to which of the following computers?
1. Computer No. 1 only
  2. Computer No. 2 only
  3. Computers Nos. 1 and 2 only
  4. Armament computer and computers Nos. 1 and 2
- 8-32. The F/A-18 jettison system has how many total modes of release?
1. One
  2. Two
  3. Three
  4. Four
- 8-33. The F/A-18 auxiliary jettison mode is used to jettison weapons on the five pylon stations at which of the following times?
1. When the emergency jettison mode fails only
  2. When the selective jettison mode fails only
  3. When the emergency or the selective jettison mode fails
  4. When the emergency and the selective jettison modes fail
- 8-34. The F/A-18 normal bomb release has what total number of electrically controlled modes of operation?
1. One
  2. Two
  3. Three
  4. Four
- 8-35. Voltage is applied to the F/A-18 bomb arming unit through aircraft wiring from what power source?
1. PS-6419
  2. PP-6419
  3. AN/AWW-7B
  4. AN/AWW-4
- 8-36. Where on the F/A-18 is the CAGE/UNCAGE switch for the Walleye guided missile system located?
1. The throttle
  2. The armament control panel
  3. The flap control panel
  4. The aircraft controller grip assembly
- 8-37. What F/A-18 system provides control and guidance to the Mk 21 and Mk 27 Walleye weapons?
1. AN/AWW-4
  2. AN/AWW-7B
  3. AN/AIM-7
  4. AN/AIM-9
- 8-38. On the F/A-18 aircraft controller grip assembly, what trigger switch position, if any, initiates launch of the AGM-65 Maverick missile?
1. First detent
  2. Second detent
  3. Third detent
  4. None
- 8-39. Control of the AGM-88 HARM missile is supplied through what F/A-18 component or system?
1. DDI
  2. SMP
  3. Data link
  4. Radar
- 8-40. Control of the AIM-7 Sparrow missile in the F/A-18 is supplied through SW and what other component or system?
1. DDI
  2. FLIR
  3. Radar
  4. Data link
- 8-41. On the F/A-18 DDI, what indication shows that the Sparrow missile selected is NOT tuned?
1. The SEL light will not illuminate
  2. An X through the SP acronym
  3. The box around the SP acronym flashes
  4. No X through the SP acronym

- 8-42. With the F/A-18 AIM-9 Sidewinder missile IR COOL switch in the NORM position, coolant is enabled to all seeker heads at which of the following times?
1. When the weight is off the wheels
  2. When the MASTER switch is in the ARM position
  3. When the station is selected on the DDI
  4. When the acronym SW has SEL displayed below on the DDI
- 8-43. The F/A-18 M61A1 20-mm gun system has what total number of submodes?
1. One
  2. Two
  3. Three
  4. Five
- 8-44. The P-3C has what total number of bomb bay and wing stations?
1. 8
  2. 10
  3. 18
  4. 66
- 8-45. The S-3A has what total number of bomb bay and wing stations?
1. Five
  2. Two
  3. Six
  4. Four
- 8-46. What stores will the P-3C electrical jettison release system release or eject?
1. All kill stores only
  2. All search stores only
  3. All kill and search stores
- 8-47. What stores will the S-3A electrical jettison release system release or eject?
1. All wing stations stores only
  2. All search stores only
  3. All wing stations and search stores
- 8-48. What total number of free-fall search stores launch chutes, if any, is on the S-3A aircraft?
1. One
  2. Two
  3. Three
  4. None
- 8-49. What is the approximate diameter of the P-3C size B chute?
1. 5 in.
  2. 7 in.
  3. 10 in.
  4. 12 in.
- 8-50. On the P-3C, what device shears the pin lugs and ejects the sonobouy stores from the SLC?
1. The CAD
  2. The SUS
  3. The SLT
  4. The TLC
- 8-51. On the P-3C and the S-3A, what action prevents the inadvertent firing of the SLT stores on the deck?
1. Manually placing the sono safety switch in the SAFE position
  2. Leaving the sono safety switch access door open
  3. Manually placing the sono safety switch to the OFF position
  4. Deactivating the sono launch circuit breaker
- 8-52. In the S-3A, what item is always loaded in tube P2?
1. A MLM
  2. A SUS
  3. A SLT sonobuoy
  4. A SAR sonobuoy
- 8-53. With the exception of tube P2 in the S-3, when the emergency jettison circuit is activated, all SLCs will jettison in less than 10 seconds.
1. True
  2. False

- 8-54. The SH-3 contains what total number of size A launcher tubes?
1. 12
  2. 24
  3. 48
  4. 72
- 8-55. What type of system is used to launch sonobuoys in the SH-60?
1. Hydraulic
  2. Pneumatic
  3. Free-fall
  4. CAD
- 8-56. With multiple faults detected by the SH-60 ECU and launcher BITE test, the failure codes will cycle at what intervals?
1. 12-second
  2. 10-second
  3. 5-second
  4. 3-second
- 8-57. Without electrical power, which of the following devices operate the P-3C bomb bay doors for ground maintenance?
1. A hand pump only
  2. A hand pump and manual control valve
  3. A 3/8-inch drive crank only
  4. A 3/8-inch drive crank and manual control valve
- 8-58. Without electrical power, which of the following devices operate(s) the S-3A bomb bay doors for ground maintenance?
1. A hand pump only
  2. A hand pump and manual control valve
  3. A 3/8-inch drive crank only
  4. A 3/8-inch drive crank and manual control valve
- 8-59. When working in the bomb bays of either the P-3C or S-3A, what item must be in place?
1. Electrical power
  2. The 3/8-inch drive crank
  3. The sono door safety pin
  4. The bomb bay door safety pin
- 8-60. What crew member has final control of the release of bomb bay stores in the P-3C and S-3A?
1. The TACCO
  2. The SENSO
  3. The pilot
  4. The copilot
- 8-61. The P-3C wing launcher assembly universal pylon uses what bomb rack?
1. Aero 58A-1
  2. Aero 65A-1
  3. BRU-11A/A
  4. BRU-22A/A
- 8-62. The S-3A wing pylon supports what ejector rack?
1. Aero 58A-1
  2. Aero 65A-1
  3. BRU-11A/A
  4. BRU-22A/A
- 8-63. In the P-3C, control and release of search and kill stores from the aircraft is concentrated between what crew members?
1. The pilot and TACCO
  2. The pilot and SENSO
  3. The copilot and SENSO
  4. The copilot and TACCO
- 8-64. In the S-3A, control and release of search and kill stores from the aircraft is concentrated between what crew members?
1. The pilot and TACCO
  2. The pilot and SENSO
  3. The copilot and SENSO
  4. The copilot and TACCO
- 8-65. The P-3C search store release and control in the manual mode is completed by what crew member?
1. The pilot
  2. The SENSO
  3. The TACCO
  4. The ordnance

8-66. The jettison of wing stores in pairs on the P-3C is at what intervals?

1. 1-second
2. 2-second
3. 3-second
4. 4-second

8-67. What landing gear weight-on-wheels switches disable the P-3C and S-3A jettison circuits on the ground?

1. Main
2. Nose
3. Right
4. Left